



PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

REC'D 0-4 MAY 2004

						REC'D	N.4.V	IAI	<u> </u>	,	ı
Applicant's or agent's file reference PAT 852W-90 FOR FURTHER AG					See Notification Preliminary Exa	WIPO	mittel e Report	f-Inter (Form	CT naisnat n PCT/IPI	EA4	16)
International application No. PCT/CA 03/00016			International filing date (da 10.01.2003	ational filing date (day/month/year) Priority date (day/month) 2003 12.01.2002					nth/year)	•	·
				4100							
B01J8/	06 		oth national classification an								
SAUDI	BASIC	INDUSTRIES CORF	PORATION et al.								
1. T	his internuthority a	ational preliminary exa and is transmitted to the	mination report has been applicant according to A	n prepare Article 36	d by this Inter	mational	Prelin	ninary	/ Exami	ning	l
2. T	his REPO	ORT consists of a total	of 4 sheets, including thi	is cover s	sheet.						
	This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).										
т	hese anı	nexes consist of a total	of sheets.								
1		Basis of the opinion Priority	elating to the following ite		ventive step a	and indu	strial a	applic:	ability		
1	III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability IV ☐ Lack of unity of invention										
1	V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							ability;			
\	/1 🗆	Certain documents ci									
\	VII ☐ Certain defects in the international application										
. /	/III 🗆	Certain observations	on the international appli	ication		•					•
			•								
Date of	submissi	on of the demand		Date of	completion of the	nis report					
26.06	26.06.2003				03.05.2004						
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I.	Bas	sis	of	the	re	a:	orl	t
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	cription, Pages				
	1-16		as originally filed			
	Clai	ms, Numbers				
	1-14		as originally filed			
	Dra	wings, Sheets				
	1/3-	3/3	as originally filed			
2.	With lang	regard to the langua uage in which the inte	age, all the elements marked above were available or furnished to this Authority in the ernational application was filed, unless otherwise indicated under this item.			
	These elements were available or furnished to this Authority in the following language: , which is:					
		the language of a tra	inslation furnished for the purposes of the international search (under Rule 23.1(b)).			
		the language of publi	ication of the international application (under Rule 48.3(b)).			
		the language of a tra Rule 55.2 and/or 55.3	inslation furnished for the purposes of international preliminary examination (under 3).			
3.	With inte	n regard to any nucle rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:			
		contained in the inter	rnational application in written form.			
		filed together with the	e international application in computer readable form.			
		furnished subsequen	ntly to this Authority in written form.			
		furnished subsequen	ntly to this Authority in computer readable form.			
		in the international a	he subsequently furnished written sequence listing does not go beyond the disclosure pplication as filed has been furnished.			
		The statement that the listing has been furnit	he information recorded in computer readable form is identical to the written sequence ished.			
4.	The	amendments have re	esulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			

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5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

No: Claims

1-14

Inventive step (IS)

Yes: Claims

No: Claims 1-14

Industrial applicability (IA)

Yes: Claims

1-14

No: Claims

2. Citations and explanations

see separate sheet

INTERNATIONAL PRELIMINARY

EXAMINATION REPORT - SEPARATE SHEET

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents: 1.

D1: EP-A-0 715 886 (BASF AG) 12 June 1996 (1996-06-12)

D2: US-A-5 071 627 (CHOI BYUNG C ET AL) 10 December 1991 (1991-12-10)

D3: PATENT ABSTRACTS OF JAPAN vol. 009, no. 317 (C-319), 12 December 1985 (1985-12-12) & JP 60 153936 A (BABCOCK HITACHI KK), 13 August 1985 (1985-08-13)

D4: DE 859 297 C (ERNST SCHMIDT BRAUNSCHWEIG DR) 11 December 1952 (1952-12-11)

D5: US-A-2 778 610 (ERNEST BRUEGGER) 22 January 1957 (1957-01-22)

D6: PATENT ABSTRACTS OF JAPAN vol. 013, no. 273 (C-609), 22 June 1989 (1989-06-22) & JP 01 067246 A (MITSUBISHI ELECTRIC CORP), 13 March 1989 (1989-03-13)

D7: US-A-3 289 644 (NORIO MOTEGI ET AL) 6 December 1966 (1966-12-06)

The present application does not meet the requirement of Article 33(2) PCT for the 2. following reasons:

D1-D7 disclose a tubular reactor having an heat-exchanger shell and at leat one tube within the shell which comprises at least one heat-pipe on its surface in order to regulate the temperature of the reaction (see D1-D7: International Search Report). Therefore the subject-matter of claim 1 is not novel.

The technical features of claims 2-14 are either known from D1-D7 or are considered 3. to be merely one of several possibilities which the skilled-person would select, in accordance with the circumstances, without the exercise of inventive skill. Consequently these claims do not meet the requirement of Article 33(2) and (3) PCT.